

FIG.1

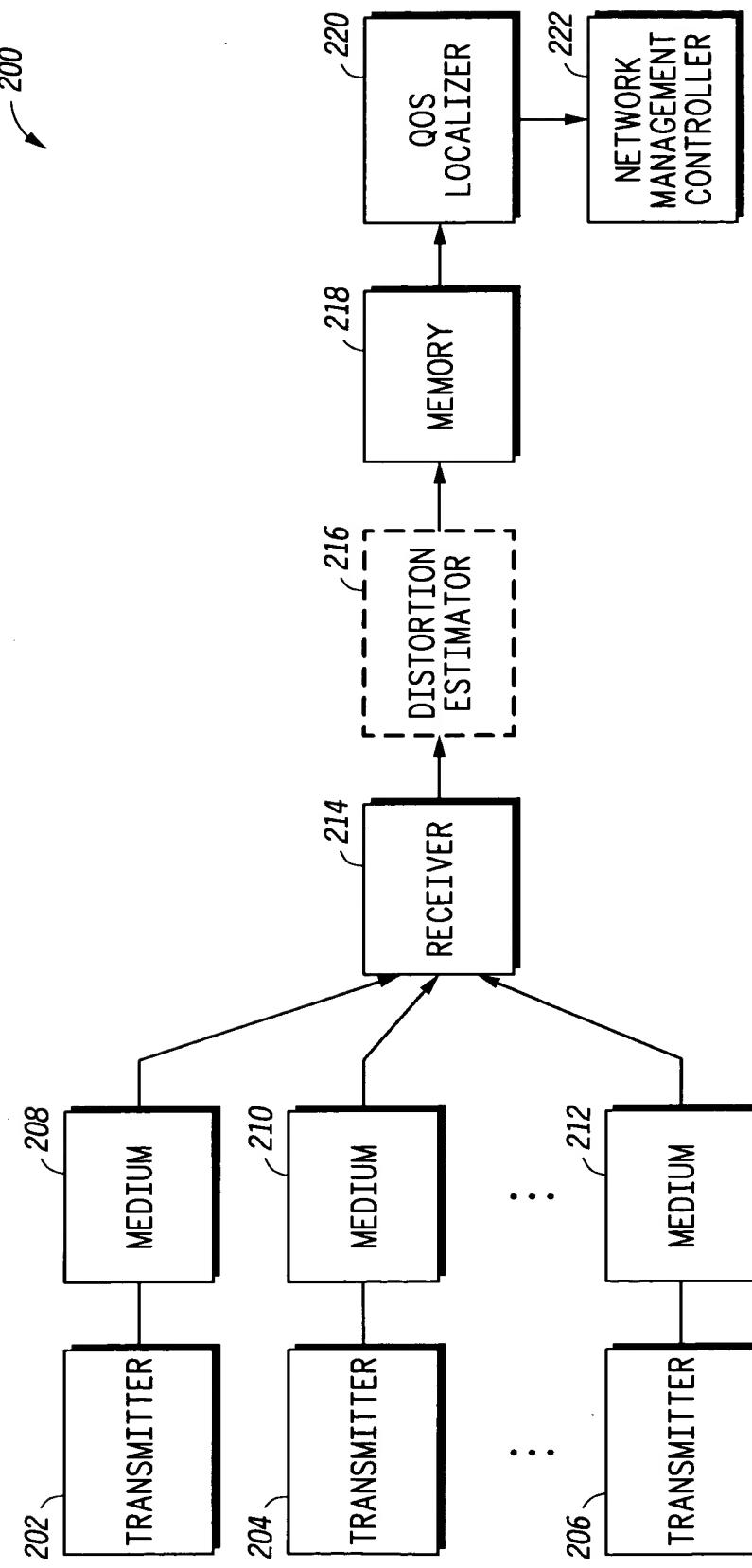


FIG. 2

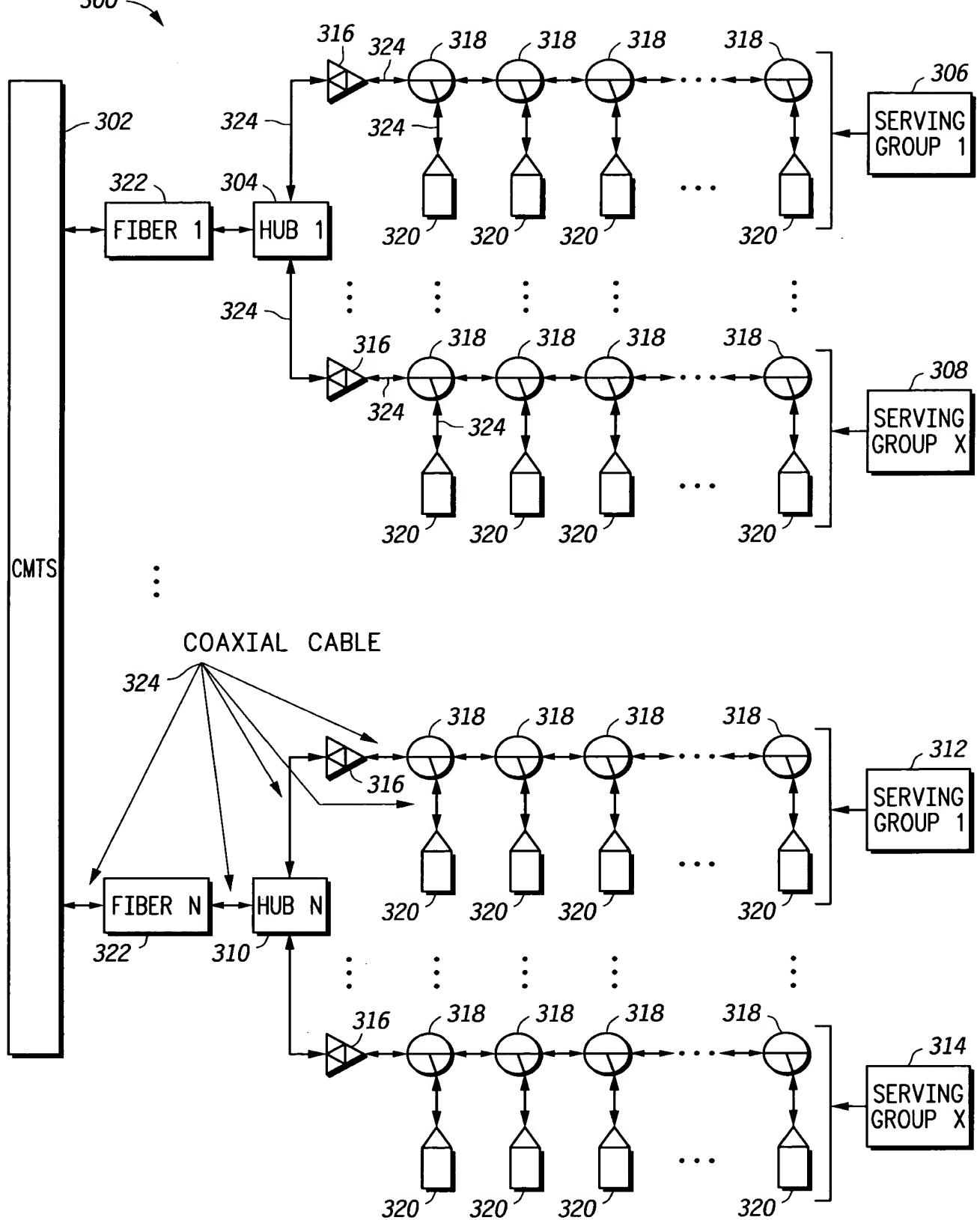


FIG. 3

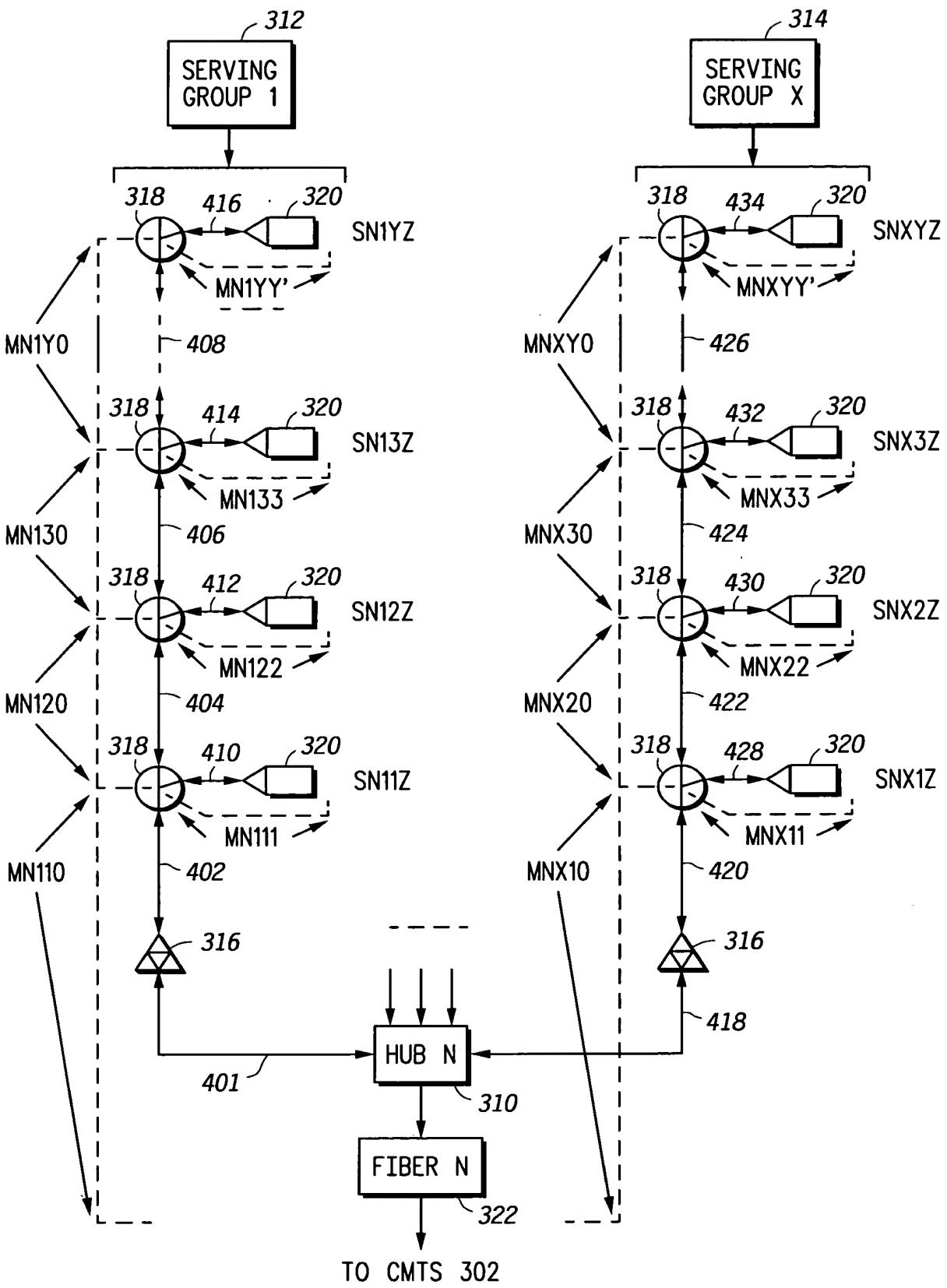


FIG. 4

FIG. 5

TABLE 1

HUB	SERVING GROUP	SUBSCRIBER POOL	MEDIUMS
		S[NXYZ]	FIELDS M[NXY'Y]
1	1	S[11YZ]	M[1110] M[1120] M[1122] M[11..0] M[11YY']
1	2	S[12YZ]	M[1210] M[1220] M[1222] M[12..0] M[12YY']
1	...	...	...
1	X	S[1XYZ]	M[1X10] M[1X20] M[1X22] M[1X..0] M[1XY'] M[1XXY']
2	1	S[21YZ]	M[2110] M[2120] M[2122] M[21..0] M[21YY']
2	2	S[22YZ]	M[2210] M[2220] M[2222] M[22..0] M[22YY']
2	...	...	...
2	X	S[2XYZ]	M[2X10] M[2X20] M[2X22] M[2X..0] M[2XXY']
2	X	S[2XYZ]	M[2X11] M[2X21] M[2X22] M[2X..0] M[2XY'] M[2XXY']
3	1	S[31YZ]	M[3110] M[3120] M[3122] M[31..0] M[31YY']
3	2	S[32YZ]	M[3210] M[3220] M[3222] M[32..0] M[32YY']
3	...	...	...
3	X	S[3XYZ]	M[3X10] M[3X11] M[3X20] M[3X22] M[3X..0] M[3XY'] M[3XXY']
...
N	1	S[N1YZ]	M[N110] M[N120] M[N122] M[N1..0] M[N1YY']
N	2	S[N2YZ]	M[N210] M[N220] M[N222] M[N2..0] M[N2YY']
N
N	X	S[NXYZ]	M[NX10] M[NX11] M[NX20] M[NX22] M[NX..0] M[NX..Y'] M[NXY0] M[NXYy']

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FIG. 6

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		SUBSCRIBER POOL						MEDIUMS THAT CAN BE TESTED ON A SUBSCRIBER BASIS,					
		SERVING HUB GROUP SUBSCRIBER S[NXYZ] FIELDS						[X] DENOTES POTENTIAL TO GATHER INFORMATION ON NETWORK HEALTH BY A GIVEN SUBSCRIBER.					
		M[NXYZ]						M[110] M[111] M[1120] M[1122] M[1130] M[1133] M[11...0] M[11Y0] M[11YY]					
1	1	1	1	S[11Z]	[X]	[X]	[X]	M[120]	[X]	[X]	[X]	[X]	[X]
1	1	1	2	S[12Z]	[X]	[X]	[X]	M[122]	[X]	[X]	[X]	[X]	[X]
1	1	1	3	S[13Z]	[X]	[X]	[X]	M[130]	[X]	[X]	[X]	[X]	[X]
1	1	1	...	...	[X]	[X]	[X]	M[133]	[X]	[X]	[X]	[X]	[X]
1	1	1	Y	S[1YZ]	[X]	[X]	[X]	M[11Y0]	[X]	[X]	[X]	[X]	[X]
1	2	1	1	S[121Z]	[X]	[X]	[X]	M[1220]	[X]	[X]	[X]	[X]	[X]
1	2	2	2	S[122Z]	[X]	[X]	[X]	M[1222]	[X]	[X]	[X]	[X]	[X]
1	2	2	3	S[123Z]	[X]	[X]	[X]	M[1230]	[X]	[X]	[X]	[X]	[X]
1	2	2	...	...	[X]	[X]	[X]	M[1233]	[X]	[X]	[X]	[X]	[X]
1	2	2	Y	S[12YZ]	[X]	[X]	[X]	M[12...0]	[X]	[X]	[X]	[X]	[X]
1	X	1	1	S[1X1Z]	[X]	[X]	[X]	M[12Y0]	[X]	[X]	[X]	[X]	[X]
1	X	2	1	S[1X2Z]	[X]	[X]	[X]	M[12YY]	[X]	[X]	[X]	[X]	[X]
1	X	3	2	S[1X3Z]	[X]	[X]	[X]	M[1X...0]	[X]	[X]	[X]	[X]	[X]
1	X	...	3	...	[X]	[X]	[X]	M[1XY0]	[X]	[X]	[X]	[X]	[X]
1	X	Y	Y	S[1XYZ]	[X]	[X]	[X]	M[1XY0]	[X]	[X]	[X]	[X]	[X]

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RECEIVING QUALITY OF SERVICE ESTIMATIONS FROM MEMORY FOR A PLURALITY OF COMMUNICATION MEDIUMS, WHEREIN EACH OF THE PLURALITY OF COMMUNICATION MEDIUMS IS FROM A RESPECTIVE ONE OF A PLURALITY OF TRANSMITTERS LOCATED WITHIN A RELATIVE TIME-INVARIANT COMMUNICATION NETWORK TO A COMMON RECEIVING POINT OF THE COMMUNICATION NETWORK, WHEREIN EACH COMMUNICATION MEDIUM IS CONVEYED OVER AT LEAST ONE SHARED PHYSICAL COMMUNICATION PATH AND AT LEAST ONE NON-SHARED PHYSICAL COMMUNICATION PATH

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STORING THE QUALITY OF SERVICE ESTIMATIONS

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COMPARING THE QUALITY OF SERVICE ESTIMATIONS IN ORDER TO LOCALIZE A PARTICULAR QUALITY OF SERVICE TO A LIKELY PHYSICAL COMMUNICATION PATH WITHIN THE COMMUNICATION NETWORK

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LOCALIZING, BASED ON THE COMPARING, A PARTICULAR QUALITY OF SERVICE TO A LIKELY PHYSICAL COMMUNICATION PATH WITHIN THE COMMUNICATION NETWORK

FIG. 7